

Energy management

# New range of TYBOX EcoSmart thermostats

## Extend the Possible



# TYBOX + comfort - consumption

## Delta Dore, a pioneer in energy management

Since 1973, Delta Dore has offered energy saving products and consistently demonstrated innovation in this field.

In 1981, Delta Dore launched its first range of TYBOX thermostats and is now offering its new generation of thermostats.

The TYBOX range is suitable for any type of heating, particularly for controlling boilers or heat pumps.



**3 product range levels  
to help you tailor your offering  
to your customers needs.**

### ● Simplicity Range

For customers who need an easy-to-use product for a constant and comfortable temperature, adjusted to the nearest degree.

### ● Intelligence Range

For customers looking for a product that combines comfort and energy savings guaranteeing the right temperature at the right time!

### ● Excellence Range

For customers looking for innovation, touch screen control, multi-zones and temperature optimisation by weather compensation.

### + ADAPTED technology

Wireless or hard-wired versions for home improvement or new builds

### + choice of PRODUCTS

To meet your customers' needs

### + new FUNCTIONS

For greater comfort and energy savings

### + SIMPLE to use

Clear products that are always easy to use

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# Greater choice for your customers



# TYBOX range, a world of benefits



## For the professional market

**Wide range:** ability to choose the thermostat most suited to your customers

**Compatible:** suitable for all types of heating and particularly for controlling boilers or heat pumps with a thermostat input control (Volt Free contact)

**Quick to install:** the wireless version is ideal because it eliminates the time required to run and wire up cables. It makes installation that much quicker

**Secure wireless protocol:** makes the installation of several wireless thermostats in one building possible without risk of interference

**Easier Program Configuration** tailored to your customers demands

**Warranty:** all products in the TYBOX range are guaranteed for 5 years

**5 year**

**Warranty**

**French manufacturing:** all the products in this new range are designed and manufactured in Brittany

**Ergonomics:** large backlit screen makes it easy to read

**Aesthetics:** streamlined design that suits all interior styles

**Simplicity:** intuitive operation thanks to the selector dial

**Energy savings:** programming enables you to have the right temperature at the right time and make energy savings of up to 25%

**Scalable:** ability to add additional functions at any time such as telephone-controlled heating or waste prevention door/window magnetic contacts

**Reliable:** the wireless technology used by Delta Dore is safe and secure (wireless range: 100 to 300 metres outside)

**Battery life:** 2 years depending on use

**2 years**

**Home improvement:** perfect for resale of property (adds value to your home)

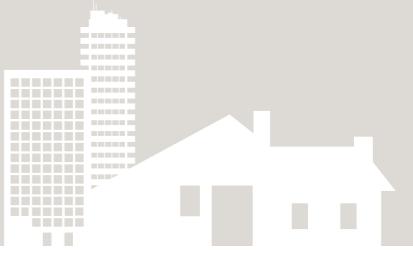


**Did you know?**

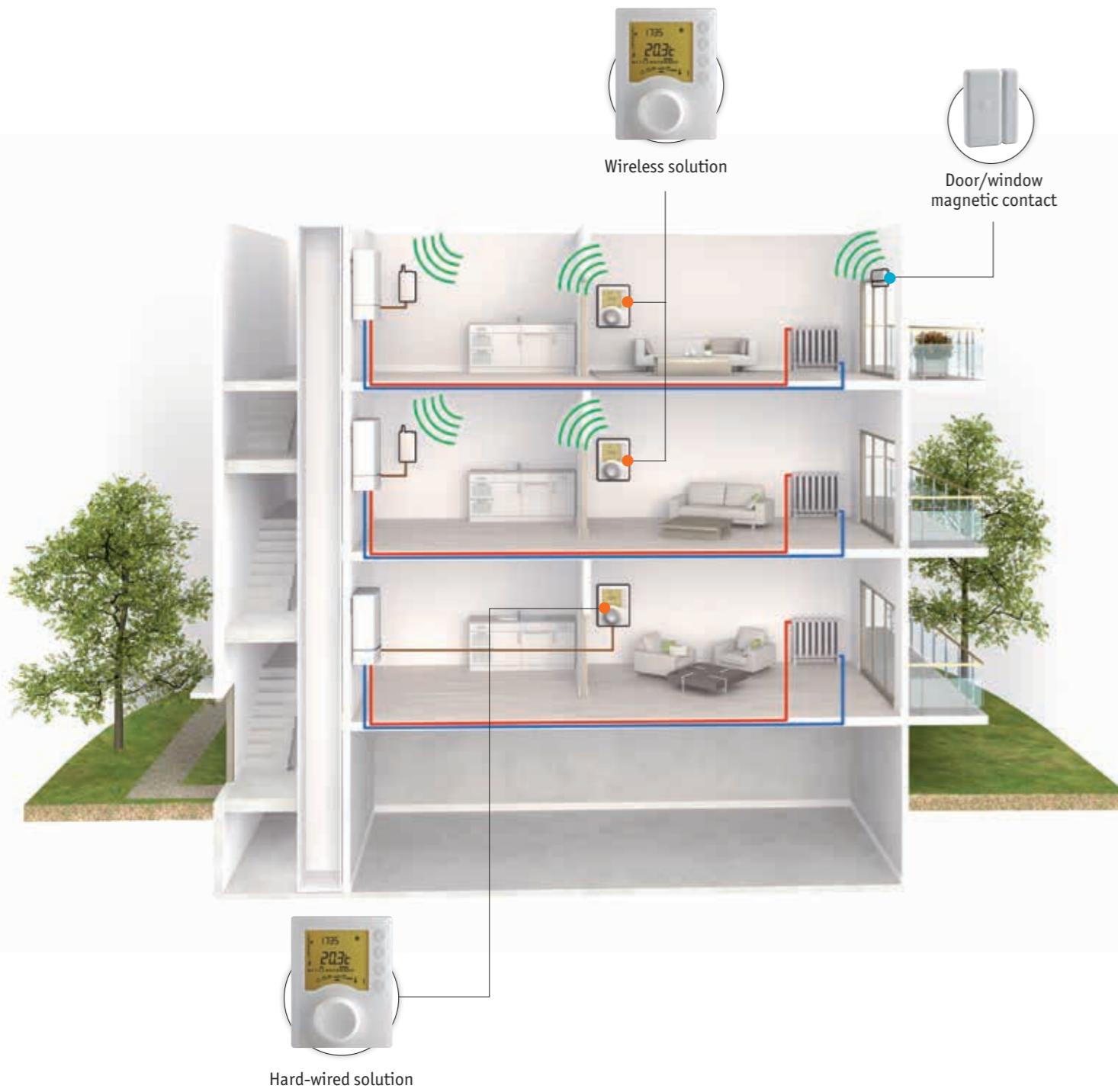
Programming can make  
**savings of up to 25%**  
on heating bills\*.

\*Source: IGNEs (Group of manufacturers specialised in products and systems in the field of electrical installations and home automation).

# Applications for home and work



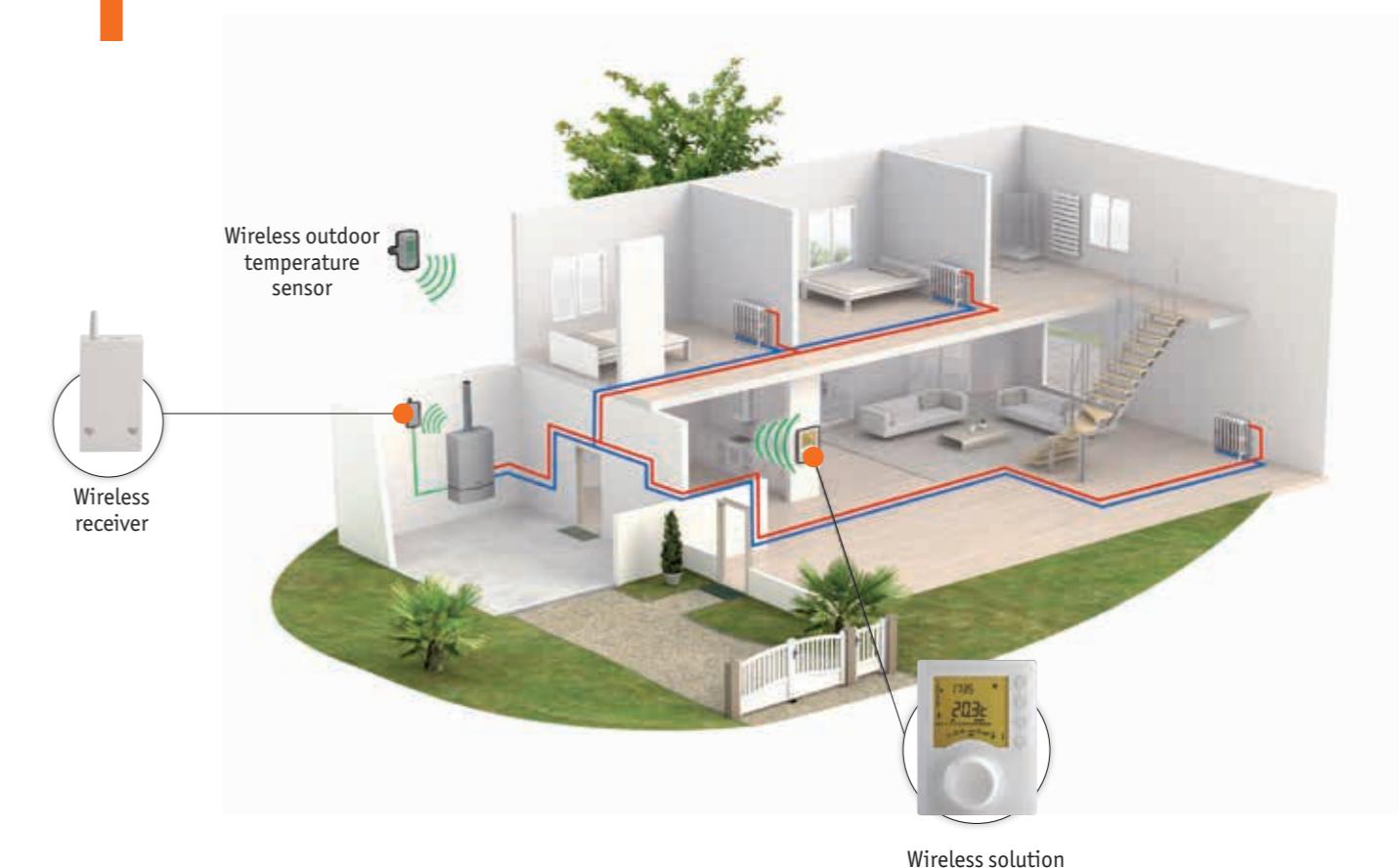
Gain more control at home with our domestic solutions



Opt for room-by-room control for your business premises



Experience greater comfort thanks to weather compensation



# Functions for greater comfort and savings



## 1 Chrono-proportional (P.I.) control

Built into each and every Delta Dore thermostat, chrono-proportional control regularly calculates the duration of the heating system's ON and OFF periods in proportion to the difference between the measured and set-point temperatures.

This ensures that the required temperature is reached quickly and accurately, without any sudden variations, in order to prevent excessive consumption.

### BENEFIT

**Increase the energy efficiency of heating systems by up to 10%**

## 2 Programming

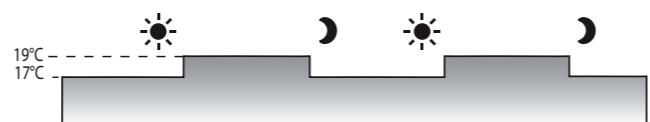
Tailored to your personal lifestyle, the programming function automatically lowers the temperature setting of one or more zones in the home during sleep and away periods each day of the week.

Combined with a controller, this function helps to reduce total heating consumption. With the Efficiency range, it is possible to choose between a Comfort/Reduced setting or a temperature setting.

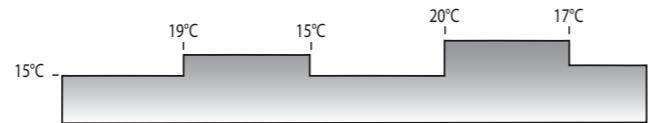
### BENEFIT

**Energy savings of up to 25%.\***

Example with a Comfort/Reduced setting at 19 and 17°C:



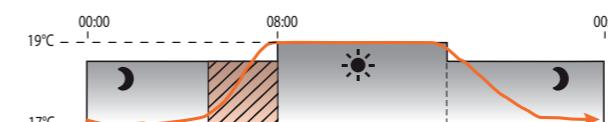
Example with a temperature setting:



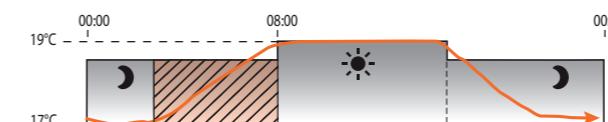
\* Source: IGNES (Group of manufacturers specialised in products and systems in the field of electrical installations and home automation)

## 3 Weather compensation: anticipation of a fall in outdoor temperature

Example with an outdoor temperature of +5°C:



Example with an outdoor temperature of -5°C:



Launch time for the anticipation function varies depending on the outdoor temperature

This function allows you to obtain the desired temperature at the desired time, whatever the outdoor temperature.

### BENEFIT

**Optimum comfort for users, guaranteeing them the chosen temperature at the programmed time.**

## 4 Telephone Remote Control (optional)



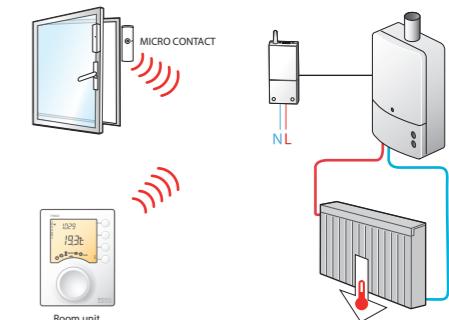
End users have the option of controlling their heating and hot water remotely via a mobile phone using a GSM transmitter unit, or over the internet using a smartphone or tablet app.

### BENEFIT

**Your customers can manage their heat consumption any time, anywhere.**

## 5 Door/window magnetic contact (optional)

Zone 1 switches to Frost Protection when the window is opened



Combine a door/window magnetic contact with a heating controller. Any time a window fitted with this technology is opened, the heating automatically switches to Frost Protection mode, reverting back to the previously set level when the window is closed. The temperature will then return to the previously selected level.

### BENEFIT

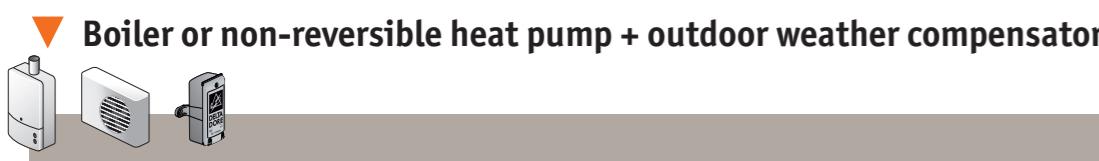
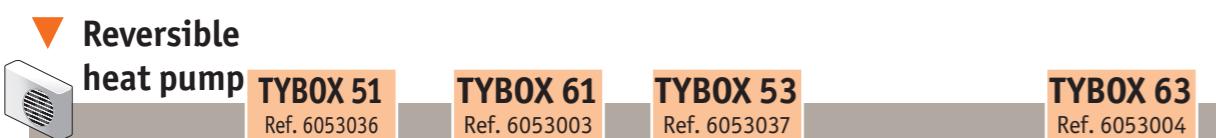
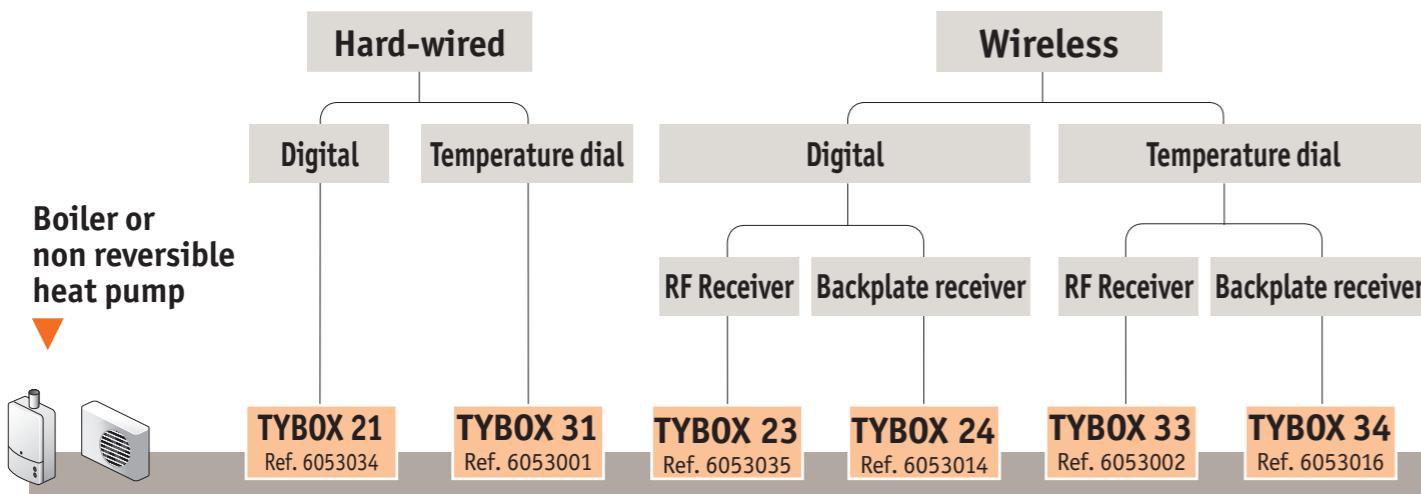
**Prevents heat loss to deliver massive energy savings to your customers.**

# Selection guide

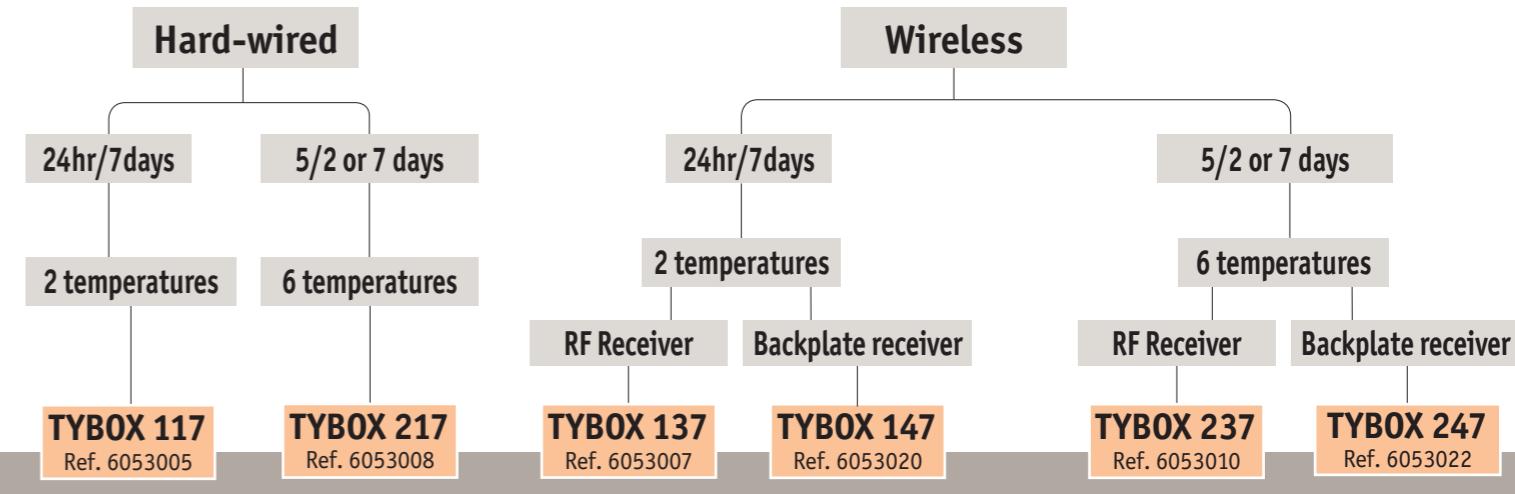
## Instantly find the product you need!



### Room Thermostats



### Programmable Thermostats



**TYBOX 437**  
Ref. 6053027

**TYBOX 337**  
Ref. 6053012

### Programmers

#### Programmer with built-in thermostat

TYBOX 817 (details p. 23)  
Wireless Wallplate Programmer  
1 channel for controlling the heating



TYBOX 827 (details p. 23)  
Wireless Wallplate Programmer  
2 channels for controlling the heating



#### Programmers without a thermostat

TYBOX 920 (details p. 17)  
Hard-wired programmer - 2 zones



Wireless DRIVER 610/620/630 (details p. 26)  
1-3 zone wireless programmers  
for electric heating  
(Pilot wire not connected)



### Complete your installation

#### Door/window magnetic contacts (details p. 35)

MICRO CONTACT  
MINI CONTACT



#### Telephone transmitters (details p. 35)

TYPHONE 5 SV GSM  
TYPHONE 2 SV



# Simplicity Range

## Digital Room thermostats

TYBOX 21, 23, 24

Wireless: TYBOX 23  
TYBOX 24  
Hard-wired: TYBOX 21

### Simple to use

- Backlit screen
- Indication of the room temperature

### Easy to install

- Set-point ranges can be locked
- Calibration of the temperature sensor



### Pre-cabled receiver

- Simple & easy to use
- Easy Overide and Timed Boost
- Pre associated
- Up to 300m range
- Volt free



Name	Reference
TYBOX 10 (hard-wired, boiler)	6053038
TYBOX 21 (hard-wired, boiler)	6053034
TYBOX 23 (wireless, boiler)	6053035
TYBOX 25 (transmitter only)	6053015
TYBOX 24 (wireless, Wallplate)	6053014

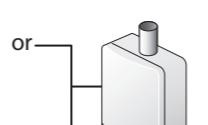
### Applications

#### > Hard-wired:



TYBOX 21

or

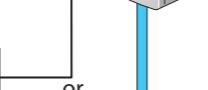


#### > Wireless:



TYBOX 23

or



TYBOX 24

### Complete your installation

#### Wireless option

- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control

Details p. 35

### Wireless thermostat TYBOX 23



Control for boilers and non-reversible heat pumps

#### Technical features

- The kit contains: 1 thermostat + 1 receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 5 A
- Four operating modes: Comfort, Reduced, Frost Protection, Off
- Length of the receiver cable: 2 metres
- Control range from 5 to 30°C

### Wireless thermostat TYBOX 24



Control for boilers and non-reversible heat pumps

#### Technical features

- The kit contains: 1 thermostat + 1 Wallplate receiver
- Power supply of the room unit: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 3 A
- Four operating modes: Comfort, Reduced, Frost Protection, Off
- Control range from 5 to 30°C
- Wall-mounted receiver

### Hard-wired mechanical room thermostat for heating and air conditioning TYBOX 10



#### Technical features

- Regulates the room temperature
- Suitable for both private homes and office buildings
- Power supply: 230 V
- 10 A/230 V change-over dry contact
- 2-wire link
- Temperature setting lock
- Range of the temperature setting: 6 to 30°C

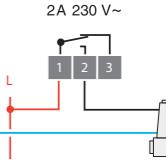
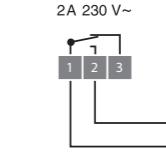
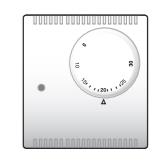
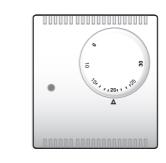


### Hard-wired thermostat TYBOX 21

Control for boilers and non-reversible heat pumps

#### Technical features

- Power supply of the room unit: 2 AAA batteries (supplied)
- Change-over dry contact output: 2 A
- Four operating modes: Comfort, Reduced, Frost Protection, Off
- Control range from 5 to 30°C



# Simplicity Range

## Room thermostats with temperature dial

### TYBOX 31, 33, 34

Wireless: TYBOX 33  
TYBOX 34  
Hard-wired: TYBOX 31

#### Simple to use

- Large backlit digital screen
- Temperature setting with the selector dial
- Indication of the room temperature
- Timed override
- 3 set temperatures: comfort, setback, frost
- Both Room T°C & set T°C displayed
- Off button
- Lockable

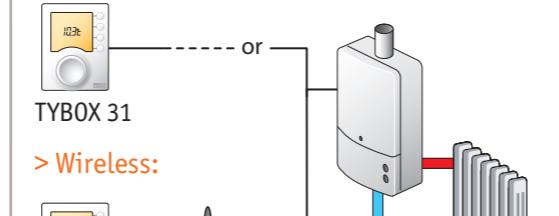
#### Easy to install

- Set-point ranges can be locked
- Calibration of the temperature sensor

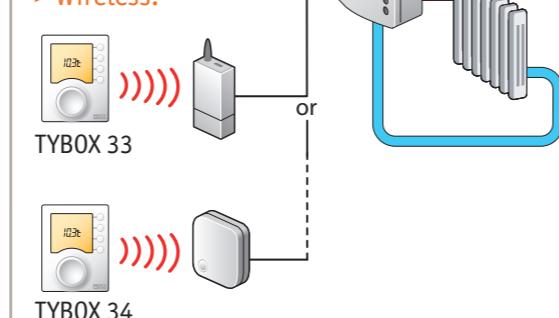


#### Applications

##### > Hard-wired:



##### > Wireless:



#### Complete your installation

##### Hard-wired option

- Cover plate (details p. 35)

##### Wireless option

- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control (details p. 35)

Name	Reference
TYBOX 31 (hard-wired, boiler)	6053001
TYBOX 33 (wireless, boiler)	6053002
TYBOX 35 (transmitter only)	6053017
TYBOX 34 (wireless, Wallplate)	6053016
TYBOX 920 (hard-wired programmer)	6053013



#### Wireless thermostat TYBOX 33

Control for boilers and non-reversible heat pumps

#### Technical features

- The kit contains: 1 thermostat + 1 receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 5 A
- Four operating modes: Comfort, Reduced, Frost Protection, Off
- Length of the receiver cable: 2 metres
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)



#### Wireless thermostat TYBOX 34

Control for boilers and non-reversible heat pumps

#### Technical features

- The kit contains: 1 thermostat + 1 Wallplate receiver
- Power supply of the room unit: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 3 A
- Four operating modes: Comfort, Reduced, Frost Protection, Off
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)
- Wall-mounted receiver



#### Hard-wired thermostat TYBOX 31

Control for boilers and non-reversible heat pumps

#### Technical features

- Power supply of the room unit: 2 AAA batteries (supplied)
- Change-over dry contact output: 2 A
- Four operating modes: Comfort, Reduced, Frost Protection, Off
- Control input on time programmer
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)

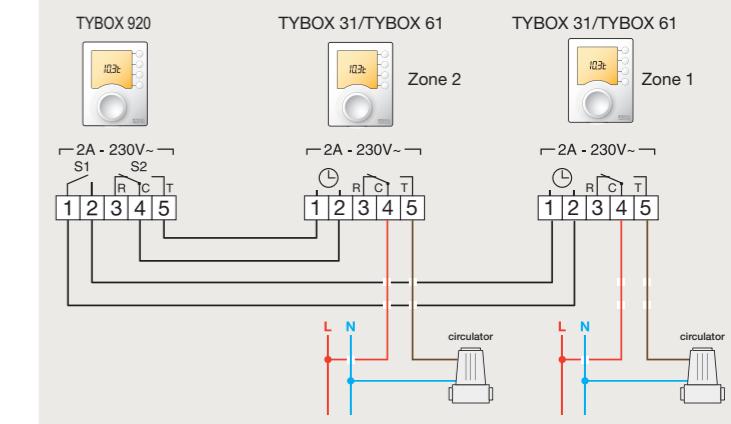
#### Hard-wired programmer - 2 zones TYBOX 920

Compatible with TYBOX 31



#### Technical features

- Selection of Auto or Manual mode using the selector dial
- Weekly programming customisable on a day-by-day basis and by zone
- Automatic time change: summer/winter
- Power provided by 2 AAA batteries (supplied)
- Two change-over dry contact outputs: 2 A



# Intelligence Range

## Programmable thermostats with 2 levels of settings

TYBOX 117, 137, 147

Wireless: TYBOX 137  
TYBOX 147

Hard-wired: TYBOX 117

### Simple to use

- Setting of two different temperature settings
- Precision programming through the choice of programming increments: 1 h /  $\frac{1}{2}$  h /  $\frac{1}{4}$  h
- Large backlit digital screen
- Automatic summer/winter time change
- Holiday program with built-in calendar
- Hourly display of the boiler operating time (excluding DHW)
- Indication of the room temperature

### Easy to install

- Switch configuration of the programming mode: weekly or daily
- Annual display of maintenance service information for the boiler or heat pump
- Set-point ranges can be locked
- Calibration of the temperature sensor



### Wireless programmable thermostat TYBOX 137

Control for boilers and non-reversible heat pumps

#### Technical features

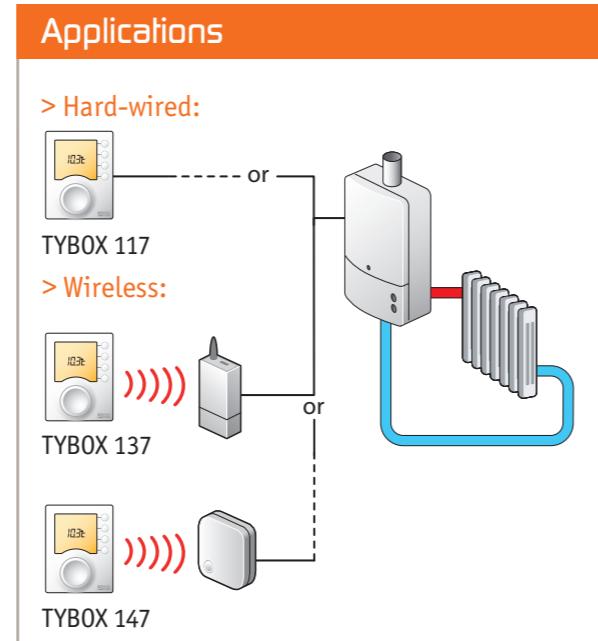
- The kit contains: 1 thermostat + 1 receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 5 A
- Length of the receiver cable: 2 metres
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)

### Wireless programmable thermostat TYBOX 147

Control for boilers or non-reversible heat pumps (Wallplate version)

#### Technical features

- The kit contains: 1 thermostat + 1 Wallplate receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 3 A
- Length of the receiver cable: 2 metres
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)
- Wall-mounted receiver



### Hard-wired programmable thermostat TYBOX 117

Control for boilers and non-reversible heat pumps

#### Technical features

- Power supply: 2 AAA batteries (supplied)
- Change-over dry contact output: 2 A
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)

### Complete your installation

#### Hard-wired option

- Cover plate

#### Wireless option

- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control

Details p. 35

Name	Reference
TYBOX 117 (hard-wired, batteries)	6053005
TYBOX 137 (wireless)	6053007
TYBOX 157 (transmitter only)	6053021
TYBOX 147 (wireless, Wallplate)	6053020

# Intelligence Range

## Programmable thermostats

### up to 6 levels of settings per day

TYBOX 217, 237, 247

Wireless: TYBOX 237  
TYBOX 247

Hard-wired: TYBOX 217

#### Simple to use

- Setting of 6 different temperature settings per day
- Precision programming through the choice of programming increments: 1 h / ½ h / ¼ h
- Large backlit digital screen
- Automatic summer/winter time change
- Holiday program with built-in calendar
- Specific program for exceptional presence at home (e.g. days off, bank holidays)
- Hourly display of the boiler operating time (excluding DHW)
- Indication of the room temperature

#### Easy to install

- Switch configuration of the programming mode:
  - weekly customisable on a day-by-day basis
  - daily customisable (5 days + 2 days)
- Annual display of maintenance service information for the boiler or heat pump
- Set-point ranges can be locked
- Calibration of the temperature sensor



#### Complete your installation

##### Hard-wired option

- Cover plate

##### Wireless option

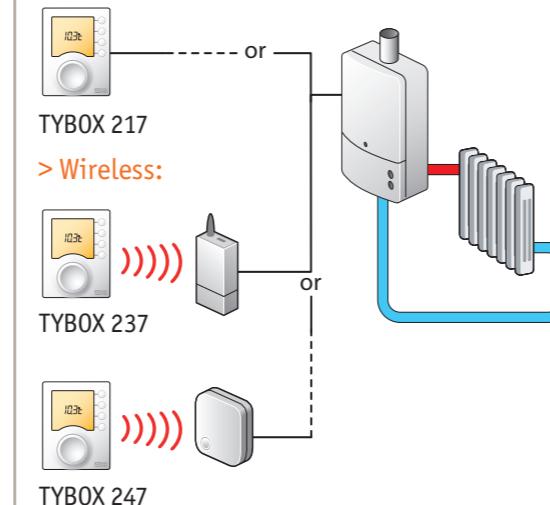
- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control on 2 levels of settings

Details p. 35

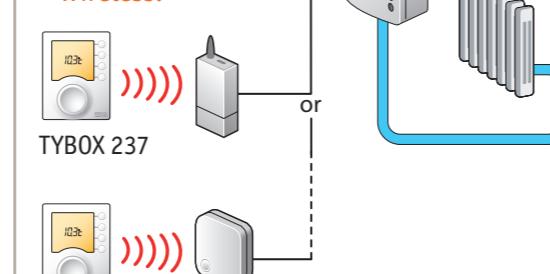
Name	Reference
TYBOX 217 (hard-wired, batteries)	6053008
TYBOX 237 (wireless)	6053010
TYBOX 257 (transmitter only)	6053023
TYBOX 247 (wireless, Wallplate)	6053022

#### Applications

##### > Hard-wired:



##### > Wireless:



#### Wireless programmable thermostat TYBOX 237

Control for boilers and non-reversible heat pumps

#### Technical features

- The kit contains: 1 thermostat + 1 receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 5 A
- Length of the receiver cable: 2 metres
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)



#### Wireless programmable thermostat TYBOX 247

Control for boilers and non-reversible heat pumps (Wallplate version)

#### Technical features

- The kit contains: 1 thermostat + 1 Wallplate receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Dry contact output: 3 A
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)
- Wall-mounted receiver



#### Hard-wired programmable thermostat TYBOX 217

Control for boilers and non-reversible heat pumps

#### Technical features

- Power supply: 2 AAA batteries (supplied)
- Change-over dry contact output: 2 A
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)

# Excellence Range

## Programmable thermostats with outdoor weather compensator

### TYBOX 337

#### Simple to use

- The weather compens function ensures the temperature setting is reached at the desired time, whatever the outdoor temperature.
- Choice of up to 6 different temperature settings per day
- Precision programming through the choice of programming increments: 1 h / ½ h / ¼ h
- Large backlit digital screen
- Automatic summer/winter time change
- Holiday program with built-in calendar
- Specific program for exceptional presence at home (e.g. days off, bank holidays)
- Hourly display of the boiler operating time (excluding DHW)
- Indication of the outdoor and indoor temperature

#### Easy to install

- Wireless outdoor temperature sensor
- Switch configuration of the programming mode:
  - weekly customisable on a day-by-day basis
  - daily customisable (5 days + 2 days)
- Annual display of maintenance service information for the boiler or heat pump
- Set-point ranges can be locked
- Calibration of the temperature sensor

#### Complete your installation

- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control

Details p. 35

Name	Reference
TYBOX 337 (wireless)	6053012
TYBOX 357 (transmitter only)	6053025



#### Wireless programmable thermostat with outdoor weather compensator

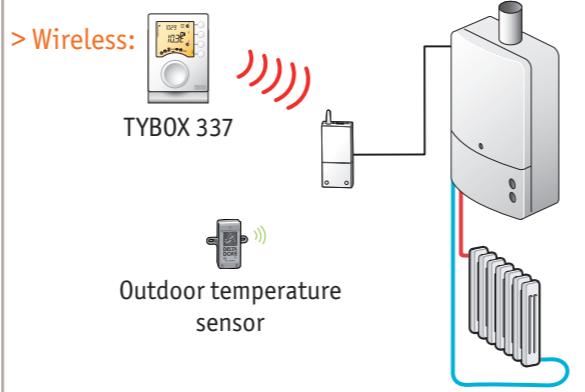
### TYBOX 337

Control for boilers and  
non-reversible heat pumps

#### Technical features

- The kit contains:
  - 1 thermostat + 1 receiver + 1 outdoor sensor
  - Room unit power supply: 2 AAA batteries (supplied)
  - Receiver power supply: 230 V
  - Sensor power supply: 1 lithium battery (supplied - 10-year battery life)
  - Dry contact output: 5 A
  - Length of the receiver cable: 2 metres
  - Control range from 5 to 30°C
  - Setting of the control time base (15 min / 30 min / 45 min / 1 hour)

#### Applications



## Wallplate programmers with built-in thermostat for heating and water control

### TYBOX 817, TYBOX 827

#### Simple to use

- Programming of up to 6 temperatures per day
- Precision programming through the choice of programming increments: 1 h / ½ h / ¼ h
- Maximises comfort thanks to its precision programming, to the nearest ¼ hour, ½ hour or hour
- Override function: ability to manually adjust the temperature when needed without changing the programmes
- Automatic summer/winter time change
- Away program for an absence of 1 to 365 days
- Room temperature reading



TYBOX 817

#### Easy to install

- Can be installed away from the boiler thanks to the wireless receiver
- Daily or weekly programming, customisable for each zone
- Annual display of maintenance service information for the boiler or heat pump
- Circulator anti-seizing feature

#### Technical features

- Power supply: 2 AAA batteries (supplied)
- Battery life: 2 years
- Receiver power supply: 230 V
- Contact output: 3 A
- Control range from 5 to 30°C

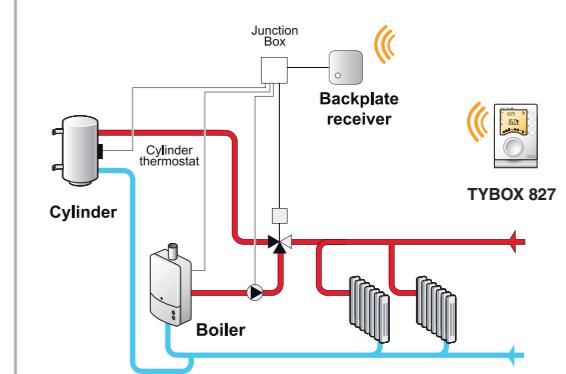
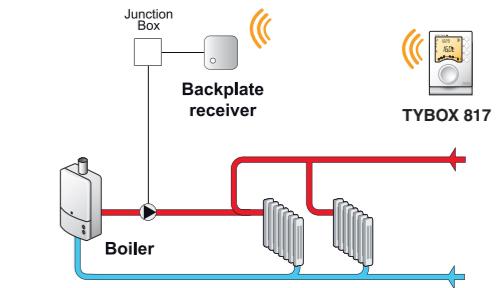
#### TYBOX 817

- 1 channel for heating control

#### TYBOX 827

- 2 channels for heating control

#### Applications



Name	Zone	Reference
TYBOX 817	1	6050536
TYBOX 827	2	6050537

## Excellence Range Control pack for TYDOM 4000

Programming of up to 8 separate zones for:  
- Heating: Boiler or non-reversible heat pump



### PRODUCT BENEFITS

- Control up to 32 fixtures or rooms
- Six temperature levels that can be programmed for each zone and for each day of the week
- Management with an annual calendar of exceptional absence and presence
- Two-way technology to instantly update the settings on all screens
- Multi-purpose home automation touch screen (control systems, security, heating and cooling)

**1 zone**  
**2 zones**  
**Additional zone**

### Boiler or non-reversible heat pump

#### TYBOX 4110 Pack

- 1 zone room sensor
- 1 zone receiver

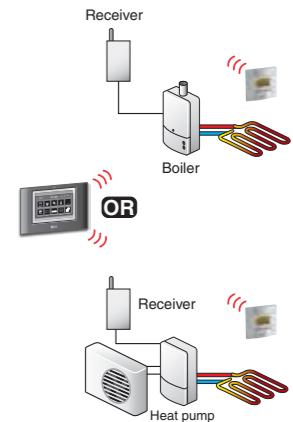
#### TYBOX 4210 Pack

- 2 zone room sensors
- 2 valve control receivers
- 1 general circuit control receiver

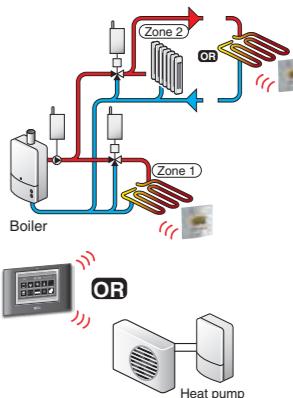
#### TYBOX 4100 Pack

- 1 zone room sensor
- 1 valve receiver

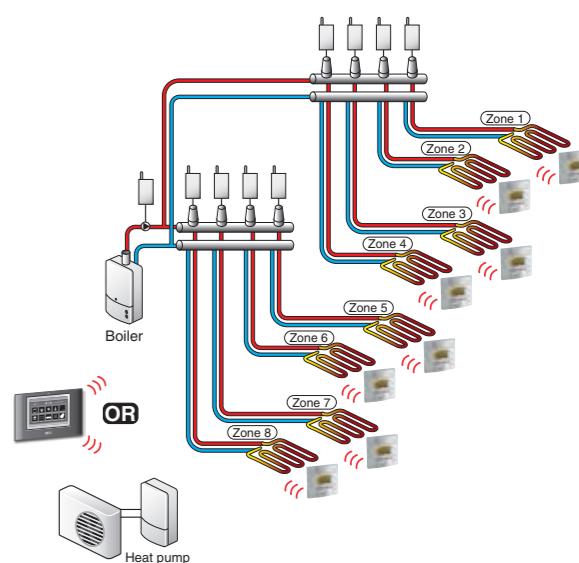
### 1-zone pack



### 2-zone pack



### 2-zone pack + 6 additional zones



## Operating principle for the control of up to 8 zones

### TYDOM 4000

- Sends the current pre-programmed temperature setting for the zone to the zone receivers for each day of the week
- Identifies each control point or room with a customisable name
- Ability to change the temperature settings for each zone

### Wireless zone room sensor

- Measures and controls the room temperature
- Allows you to override settings locally

### Multizone receivers

- The room sensor receiver controls the electrothermal head of the dedicated valve or motorised damper (air conditioning)
- The general receiver controls the general shutdown of the boiler or heat pump when no zone requires heating or air conditioning

### Pilot wire/Wireless receiver for TYDOM 4000

#### RF 6600 FP



Zone room sensor Zone receiver

### Technical features

- Converts wireless commands from the TYDOM 4000 into pilot wire information and sends it to one or more 4- or 6-order electric pilot wire heaters
- Programming in Comfort, Economy, Frost Protection and Off mode
- Ability to save multiple receivers within the same zone
- Wireless programming of up to 8 electric heater zones

Name	Reference
TYDOM 4000	6700077
Flush-mounted power supply	6700042
Modular power supply	6700041
Multi-Plug* power supply	6700081
Backup power supply**	6700043

\* Only for base-unit or wall-mounted models \*\* Recommended for use with an alarm system.

Name	Reference
TYBOX 4110 Pack	6050591
TYBOX 4210 Pack	6050592
TYBOX 4100 Pack	6050586
RF 6600 FP	6050594

## 1-3 zone wireless programmers for electric heating (PILOT WIRE not connected) Wireless DRIVER 610/620/630

### Simple to use

- For controlling pilot wire electric heating or hot water heating
- Rooms on different floors can be grouped in one heating zone (no wiring required)
- Daily or weekly programming for 1, 2 or 3 zones
- Programming by  $\frac{1}{4}$  hour,  $\frac{1}{2}$  hour or hour
- Timer-controlled zone override from 15 minutes to 72 hours
- Continuous override function using the selector dial
- Away program for an absence of 1 to 365 days
- Room temperature reading



Wireless DRIVER 610

### Easy to install

- Ideal for when no pilot wire is connected to the electrical switchboard thanks to the wireless technology
- Unlimited number of receivers per zone
- The battery power supply means it can be mounted to the wall or placed on a piece of furniture

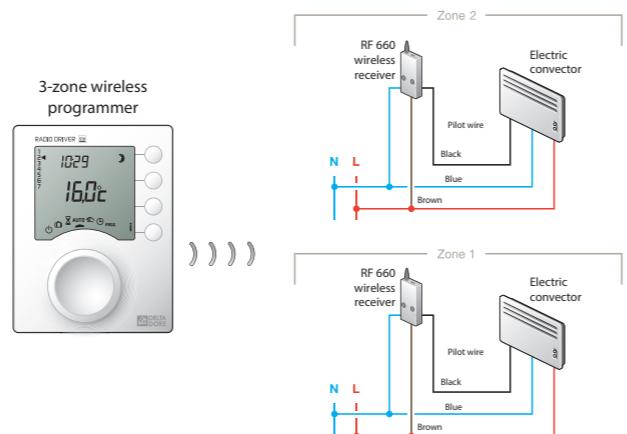


Pilot Wire Wireless Receiver  
RF 660 FP

- Combined with a DRIVER Wireless programmer, the RF 660 FP receiver helps you control your heat emitters with ease
- For 4- and 6-order pilot wire heaters
- Override
- Temperature settings display

### Technical features

- Technical features
- Power supply: 2 AAA batteries (supplied)
- Battery life: 2 years
- Wall-mounted or installed in a flush-mounted box ( $\varnothing$  60 mm) or base unit
- Dimensions: H 104 x L 80 x D 35 mm



Name	Reference
Wireless DRIVER 610	6051137
Wireless DRIVER 620	6051138
Wireless DRIVER 630	6051139
RF 660FP wireless receiver	6050508

### Complete your installation

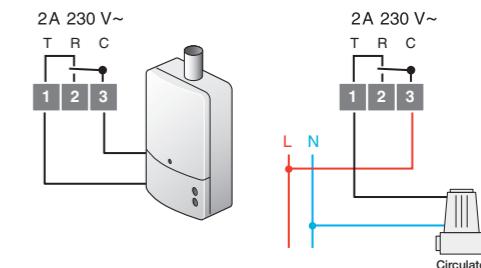
- Thermostatic control of electrical heating without pilot wire with TYBOX 23 or 24 (details p. 14)
- Automatic switch-over of heating to Frost Protection mode when combined with MICRO CONTACT/MINI CONTACT door/window magnetic contacts (details p. 35)

# Wiring diagrams

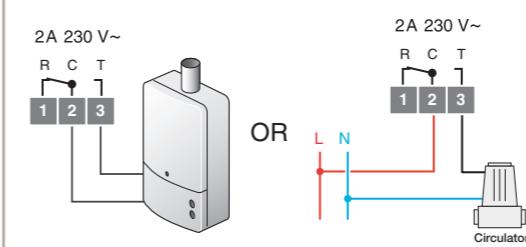
Please note, TYBOX thermostats  
are compatible with:

- boilers with a 24 V DC thermostat control input,
- boilers with 230V live switching,
- devices with a thermostat control input equipped with a non-powered dry output contact (e.g. some pellet stoves),
- valves with an electrothermal head.

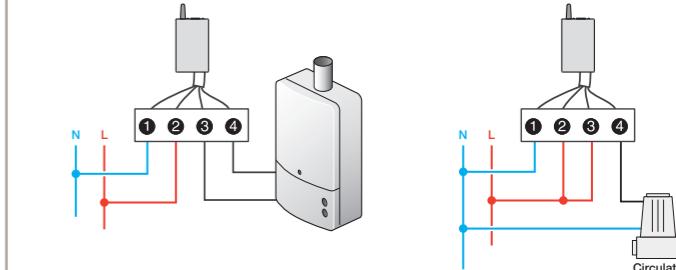
### TYBOX 21



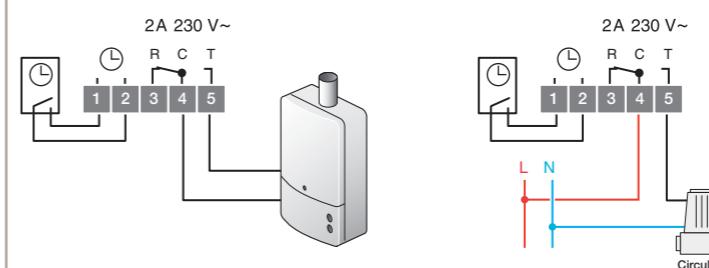
### TYBOX 117, 217



### TYBOX 23, 33, 137, 237, 337



### TYBOX 31



## RENEWABLE ENERGY RANGE

### Simplicity Range Digital room thermostats TYBOX 51, 53



Wireless: TYBOX 53  
Hard-wired: TYBOX 51

#### Simple to use

- Backlit screen
- Indication of the room temperature

#### Easy to install

- Set-point ranges can be locked
- Calibration of the temperature sensor

#### Complete your installation

##### Hard-wired option

- Cover plate

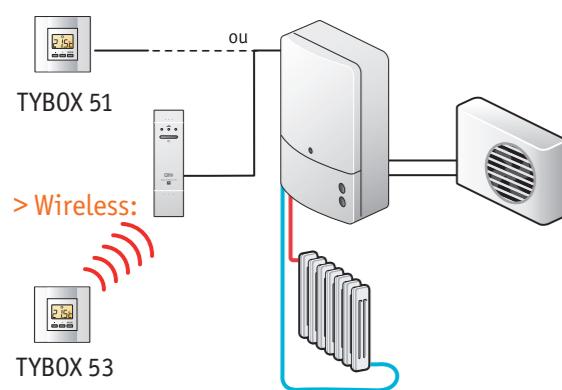
##### Wireless option

- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control

Details p. 35

#### Applications

##### > Hard-wired:



Name	Reference
TYBOX 51 (hard-wired, reversible heat pump)	6053036
TYBOX 53 (wireless, reversible heat pump)	6053037



### Wireless thermostat TYBOX 53

Control for reversible heat pumps

#### Technical features

- Change-over control on the heat pump
- The kit contains: 1 thermostat + 1 receiver
- Power supply of the room unit: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Change-over dry contact output: 5 A
- Three operating modes: Heat, Cool, Off
- Control range from 5 to 30°C

## RENEWABLE ENERGY RANGE

### Simplicity Range Room thermostats with temperature dial TYBOX 61, 63



Wireless: TYBOX 63  
Hard-wired: TYBOX 61



### Wireless thermostat TYBOX 63

Control for reversible heat pumps

#### Technical features

- Change-over control on the heat pump
- The kit contains: 1 thermostat + 1 receiver
- Room unit power supply: 2 AAA batteries (supplied)
- Receiver power supply: 230 V
- Change-over dry contact output: 5 A
- Three operating modes: Heat, Cool, Off
- Control range from 5 to 30°C
- Setting of the control time base (15 min / 30 min / 45 min / 1 hour)



### Hard-wired thermostat TYBOX 61

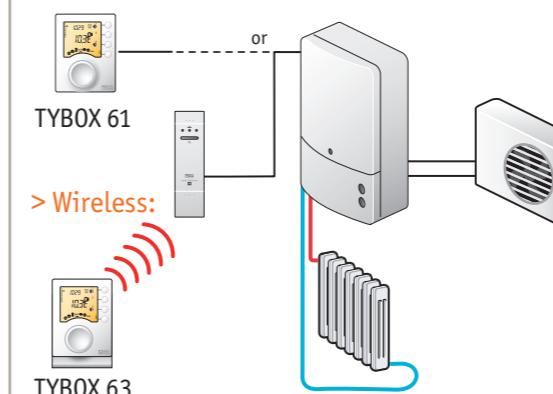
Control for reversible heat pumps

#### Technical features

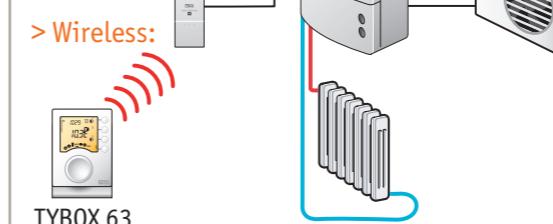
- Change-over control on the heat pump
- Power supply of the room unit: 2 AAA batteries (supplied)
- Change-over dry contact output: 2 A
- Three operating modes: Heat, Cool, Off
- Control range from 5 to 30°C

#### Applications

##### > Hard-wired:



##### > Wireless:



### Hard-wired programmer 2 zones TYBOX 920

Compatible with TYBOX 61



Wireless: TYBOX 63  
Hard-wired: TYBOX 61

#### Technical features

- Selection of Auto or Manual mode using the selector dial
- Weekly programming customisable on a day-by-day basis and by zone
- Automatic time change: summer/winter

Name	Reference
TYBOX 61 (hard-wired, reversible heat pump)	6053003
TYBOX 63 (wireless, reversible heat pump)	6053004
TYBOX 920 (hard-wired programmer)	6053013

## RENEWABLE ENERGY RANGE

### Efficiency Range

Programmable thermostats for reversible heat pumps with 2 levels of settings

TYBOX 417, 437



Wireless: TYBOX 437  
Hard-wired: TYBOX 417

#### Simple to use

- Setting of 2 different temperature settings per day in Heat mode and in Cool mode
- Change-over control (Heat/Cool) on the heat pump
- Precision programming through the choice of programming increments: 1 h / ½ h / ¼ h
- Large backlit digital screen
- Indication of the room temperature



#### Wireless programmable thermostat TYBOX 437

Control for air conditioning systems or reversible and non-reversible heat pumps

#### Easy to install

- Set-point ranges can be locked
- Calibration of the temperature sensor
- Weekly or daily programming

#### Complete your installation

##### Hard-wired option

- Cover plate

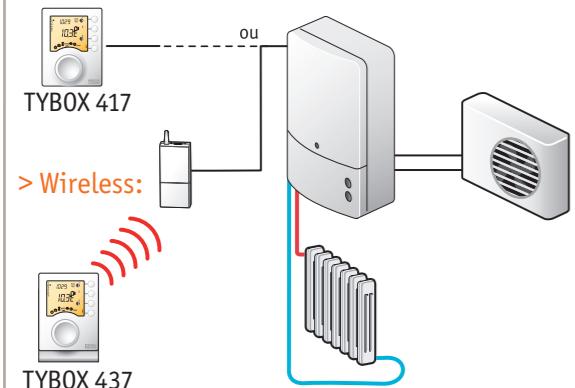
##### Wireless option

- Wireless door/window magnetic contacts
- GSM or PSTN wireless telephone control

Details p. 35

#### Applications

##### > Hard-wired:



Name	Reference
TYBOX 417 (hard-wired)	6053026
TYBOX 437 (wireless)	6053027



#### Hard-wired programmable thermostat TYBOX 417

Control for air conditioning systems or reversible and non-reversible heat pumps

#### Technical features

- Change-over control on the room unit
- Power supply: 2 AAA batteries (supplied)
- Two configurable dry contact outputs: 2 A
- Control range from 5 to 30°C
- Setting of the control time base (30 min / 45 min / 1 hour)

## RENEWABLE ENERGY RANGE

### Efficiency Range

Modular thermostats

T1C-2 DIGIT, T1D DIGIT



#### Heat pump application with boiler back-up Multifunction modular thermostat T1C-2 DIGIT

- Ideal for commercial building regulation, provides control of room temperature, underfloor temperature, etc.
- Allows alternate operation of a heat pump as a boiler backup
- Automatically selects the appropriate heat source(s) based on the outdoor temperature

#### Technical features

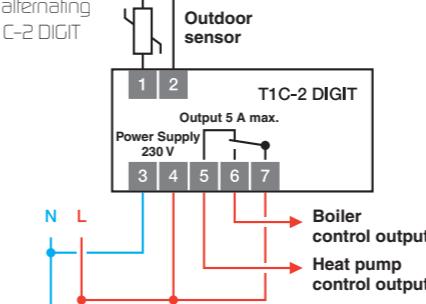
- One 5 A/230 V change-over dry contact
- Temperature setting(s) from -10 to 90°C in increments of 0.5°C
- Differential setting from 0.2 to 2°C in increments of 0.1°C
- Operates with a 1KΩ sensor (not supplied)
- Dimensions: 3 modules

#### Functions

- Electronic thermostat with digital display
- On/Off regulation
- Fan convector unit and electric heating applications when control of the settings must be shared
- One temperature threshold possible
- Control of heat pump as a boiler backup

#### Applications

Example of installation as a boiler backup in alternating control with the T1C-2 DIGIT

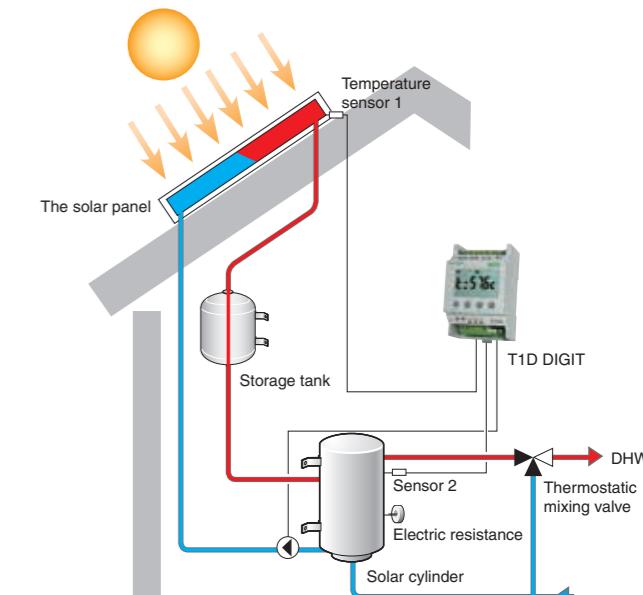


Name	Reference
T1C-2 DIGIT	6150031

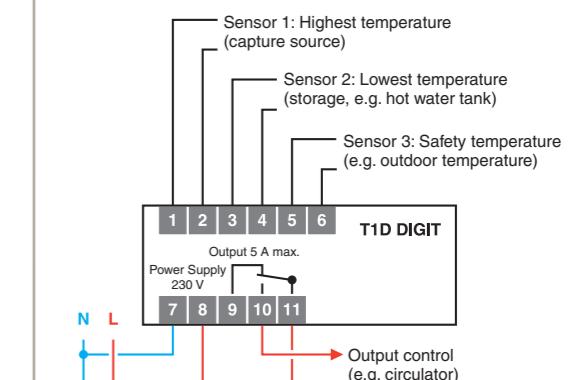


#### Solar application Digital modular thermostat T1D DIGIT

- Digital modular thermostat
- Regulates the water temperature using solar sensors



#### Applications



Name	Reference
T1D DIGIT	6150032

# RENEWABLE ENERGY RANGE

## Excellence Range

### Control pack for TYDOM 4000

Programming of up to 8 separate zones for:

- Air conditioning: Reversible heat pump in a ductable system



#### PRODUCT BENEFITS

- Control up to 32 fixtures or rooms
- Six temperature levels that can be programmed for each zone and for each day of the week
- Management with an annual calendar of exceptional absence and presence
- Two-way technology to instantly update the settings on all screens
- Multi-purpose home automation touch screen (control systems, security, heating and cooling)

#### 1 zone

#### 2 zones

#### Additional zone

### Air conditioning - Reversible heat pump

#### TYBOX 4150 Pack

- 1 zone room sensor
- 1 zone receiver

#### TYBOX 4250 Pack

- 2 zone room sensors
- 2 valve control receivers or motorised dampers
- 1 general circuit control receiver

#### TYBOX 4100 Pack

- 1 zone room sensor
- 1 valve receiver or motorised damper

## Operating principle for the control of up to 8 zones

### TYDOM 4000

- Sends the current pre-programmed temperature setting for the zone to the zone receivers for each day of the week
- Identifies each control point or room with a customisable name
- Ability to change the temperature settings for each zone
- Change-over control on the reversible heat pump (air conditioning)

### Wireless zone room sensor

- Measures and controls the room temperature
- Allows you to override settings locally

### Multizone receivers

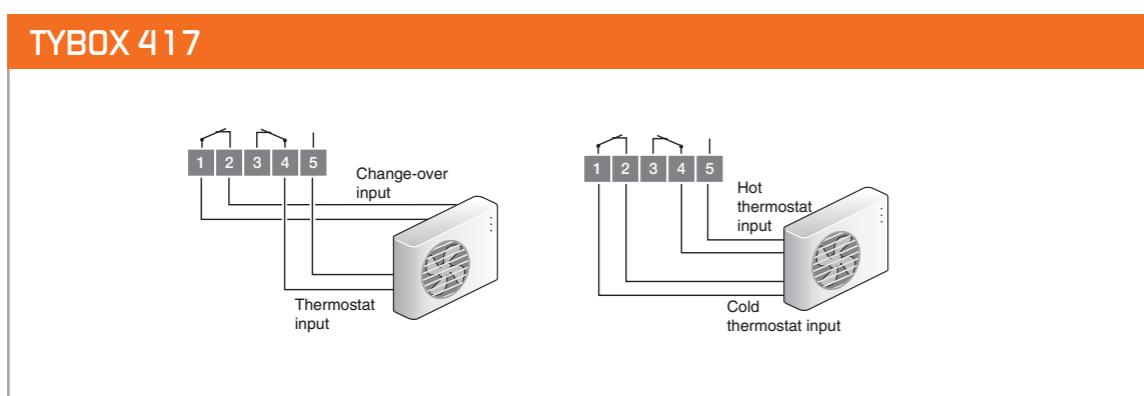
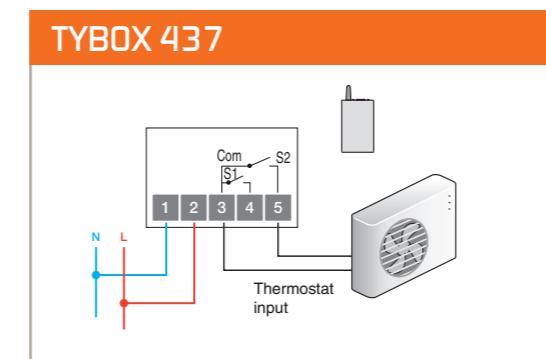
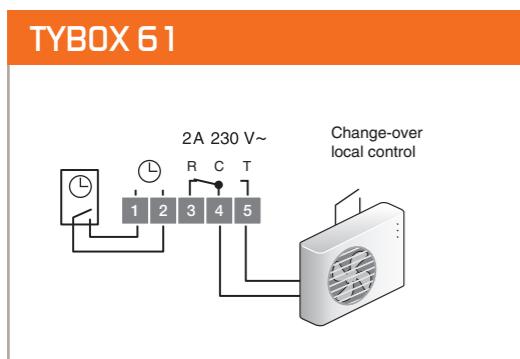
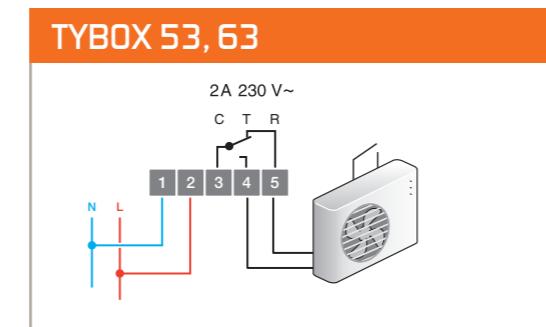
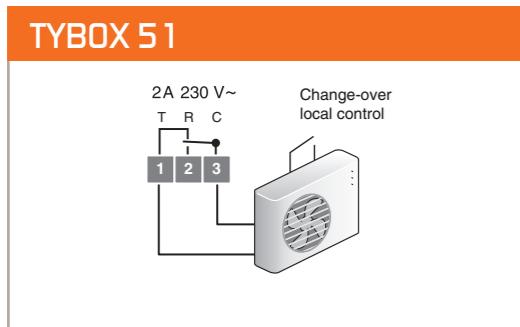
- The room sensor receiver controls the electrothermal head of the dedicated valve or motorised damper (air conditioning)
- The general receiver controls the general shutdown of the boiler or heat pump when no zone requires heating or air conditioning

Name	Reference
<b>TYDOM 4000</b>	6700077
<b>Flush-mounted power supply</b>	6700042
<b>Modular power supply</b>	6700041
<b>Multi-Plug* power supply</b>	6700081
<b>Backup power supply**</b>	6700043

\* Only for base-unit or wall-mounted models \*\* Recommended for use with an alarm system.

Name	Reference
<b>TYBOX 4150 Pack</b>	6050595
<b>TYBOX 4250 Pack</b>	6050597
<b>TYBOX 4100 Pack</b>	6050586

# Wiring diagrams



# Intelligent accessories



Reference: 6201048

**Telephone transmitter and remote control (compatible with wireless TYBOX models)**

**TYPHONE 5 SV GSM**

- Voice synthesis controlled
- Control heating, gate, lighting and roller shutters remotely
- Requires a SIM (GSM) for operation (not supplied)
- Recommended for controlling second homes with no phone line or with full LLU connections



Reference: 6201022

**TYPHONE 2 SV (compatible with TYBOX 31)**

- Voice synthesis controlled
- Controls 2 different channels



Reference:  
MICRO CONTACT: 6412290  
MINI CONTACT: 6412254

**Wireless door/window magnetic contacts (compatible with the wireless versions of TYBOX)**

**MICRO CONTACT / MINI CONTACT**

- Fitted on an access point (door or window), it can switch the heating to frost protection mode from the moment a window is opened, to reduce energy consumption
- Supplied in packs of 5



Reference: 6050566

**Cover plate**

- Ideal for replacing an old programmable thermostat while blending in with the home interior
- Fits on hard-wired TYBOX models: TYBOX 31, 61, 117, 127, 217, 417
- Dimensions: H 161 x L 182 mm
- Supplied in packs of 5



Reference: 6351081

**Wireless receiver**

**RF 642**

- Heating control: combined with a single thermostat, it can control a boiler or electric heating system
- Automated device control: it can be used to control lighting, garage doors or electric gates
- 230 V power supply
- Contact output: 16 A

Delta Dore also brings you...

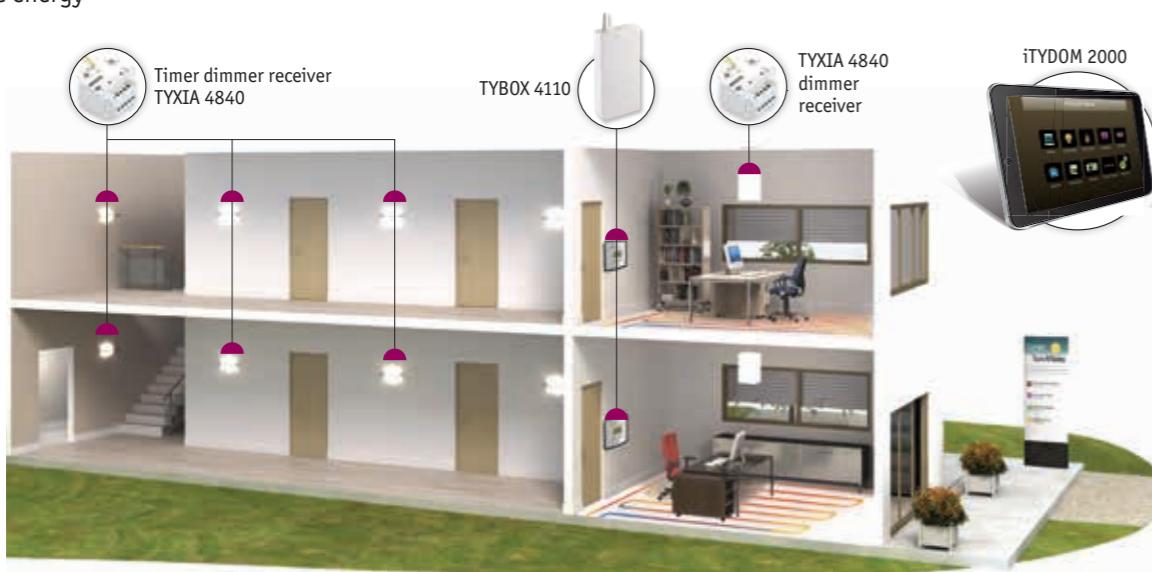
home automation solutions  
to simplify your daily life



## Control heating and lighting

### Benefits of the solution:

- Prevents office and corridor lights being left on accidentally
- Helps to save energy



## Home automation screens and controls



### TYDOM 4000 touch screen

- Multi-function wireless control and programming: heating, control systems, lighting, etc.
- Quick, autonomous configuration without the need for a configuration tool or PC
  - Allows you to monitor and control up to 32 lighting control and dimming channels and 16 scenario control channels
  - 32 control system channels
- Compatible with our heating and cooling packs (details p. 24 and 32) and range of TYXIA receivers



### TYXIA 141 key ring remote control

- Centralise the control of outdoor control systems and lighting
- 4 control system channels:
  - Lighting On/Off
  - Open/Close gate, garage door, electric lock
- Shock resistant

## iTYDOM 2000 application for tablets and smartphones

- Control of all applications at home from a smartphone or tablet
- Application can be downloaded free of charge and without subscription
- Quick and easy connection of the home automation gateway to the ADSL box



Name	Reference
TYDOM 4000 touch screen	6700077
TYDOM 2000 home automation gateway	6700098
TYXIA 141 remote control	6351165

# Delta Dore also brings you...

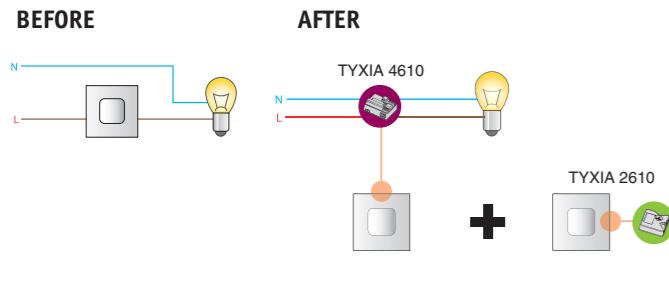
# control system solutions for your lighting

## Create a wireless two-way switch

Add a lighting control point without any drilling.



### Creating a wireless two-way switch from an existing switch **with neutral**

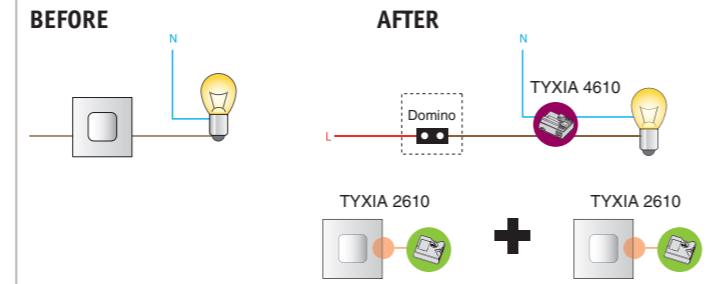


#### Benefits of the solution:

- Saves time on installation
- Blends in with the home interior
- Your customer's original switch design remains intact

Name	Reference
TYXIA 500 Pack	6351203
TYXIA 510 Pack	6351204

### Creating a wireless two-way switch from an existing switch **without neutral**



#### Benefits of the solution:

- Saves time on installation
- Blends in with the home interior
- Your customer's original switch design remains intact

## Simplify life with one of our packs!

### TYXIA 500 Pack

- 1 TYXIA 2610 transmitter
- 1 TYXIA 4610 receiver

### TYXIA 510 Pack

- 2 TYXIA 2610 transmitters
- 1 TYXIA 4610 receiver



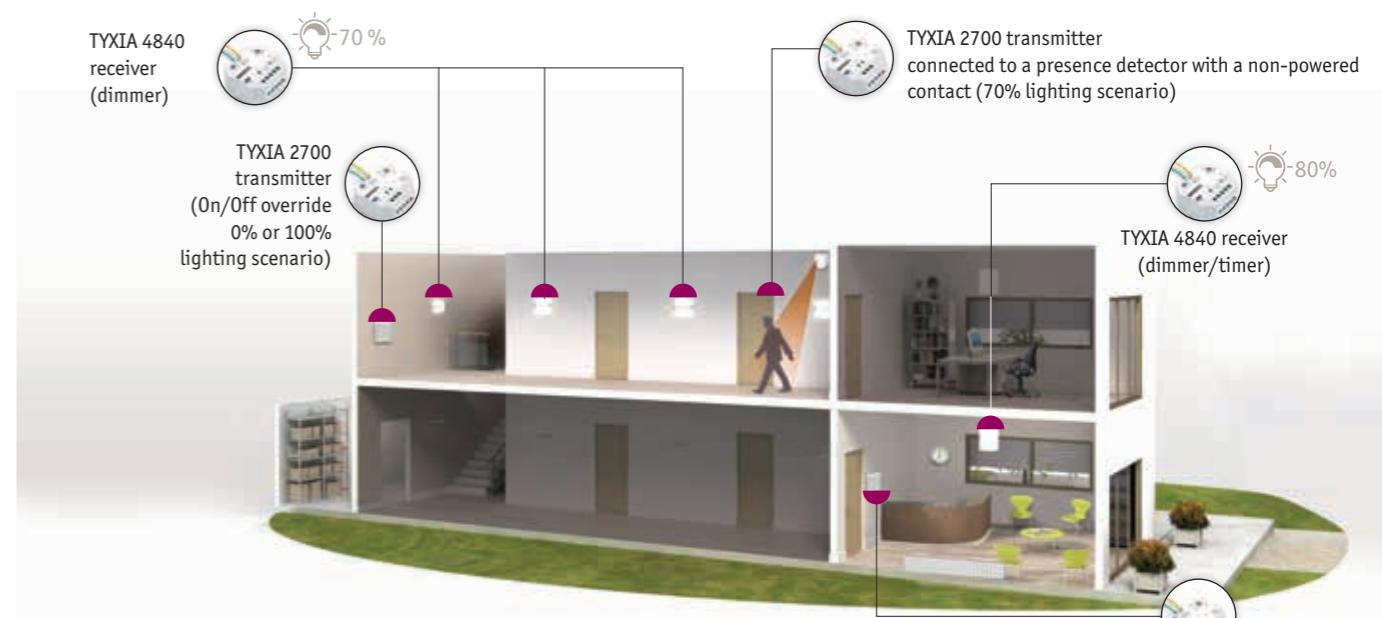
## Light up the shared parts of a building

Avoid lighting in passageways being left on accidentally



#### Benefits of the solution:

- Helps to save lighting energy in any kind of building
- Prevents lights being left on accidentally
- Ability to set a time delay for lighting
- The warning that the lights are going to go off helps to prevent being left in the dark between two floors



#### Benefits of the solution:

- Ability to adjust the intensity level chosen by the customer in a corridor or room
- Helps to save energy
- Helps to provide flexibility of use with a local On / Off override control

# Index

## by product name

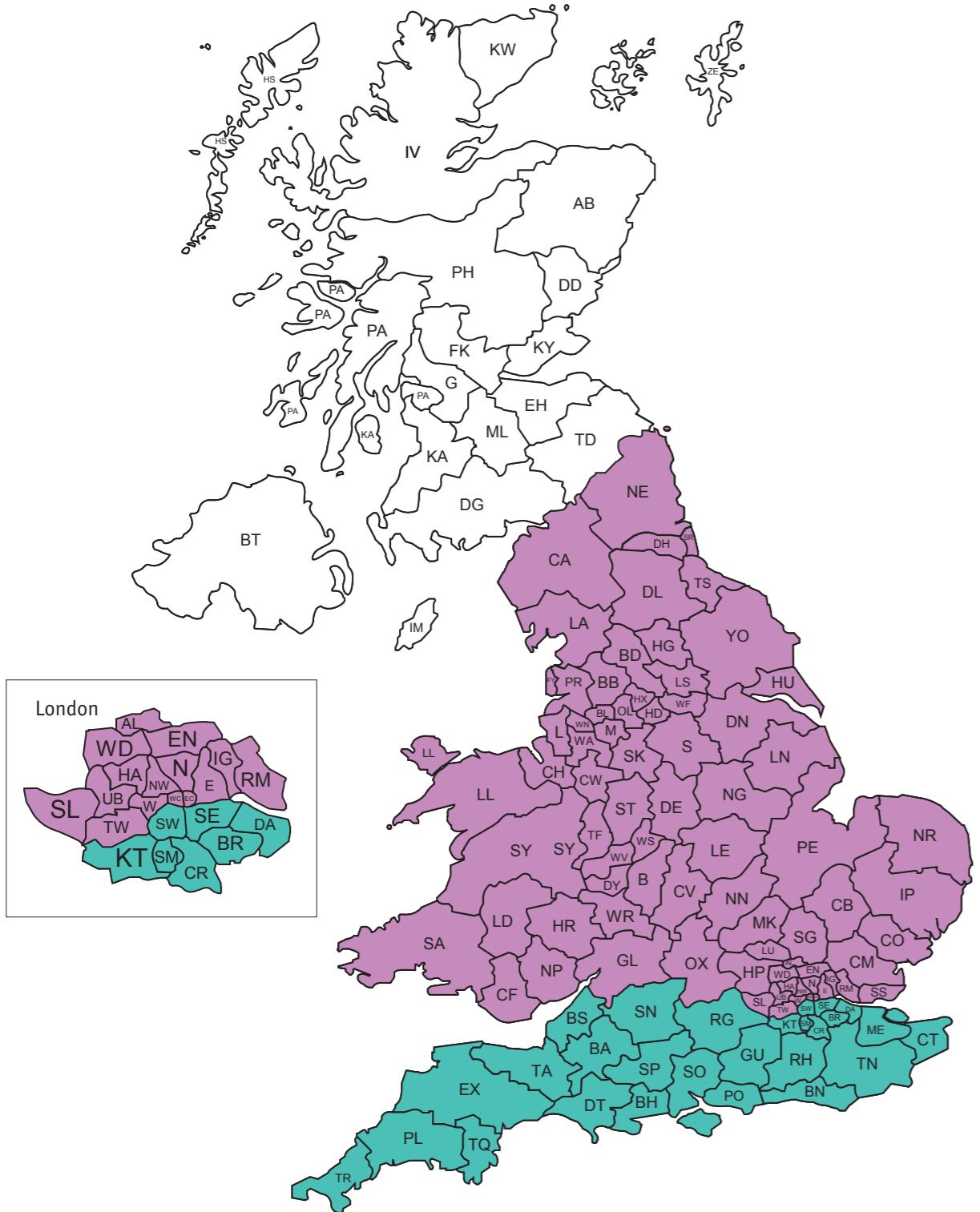
Product	Code	Page
BACKUP POWER SUPPLY: INTEGRATED BACKUP BATTERY 13.8V 5A (TYDOM 4000)	6700043	24
COVER PLATE	6050566	35
WIRELESS DRIVER 610	6051137	26
WIRELESS DRIVER 620	6051138	26
WIRELESS DRIVER 630	6051139	26
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## Delta Dore Website

Take a look at our  
products and services  
on our website  
<http://www.deltadore.co.uk>



## Sales territories



 NORTH THAMES

- Regional Sales Representative  
Mobile: 07772 622926

SOUTH THAMES & SOUTHERN

- Regional Sales Representatives  
Mobile: 07896 973673      Mobile: 07805 691695

# Smart Heating Controls Energy Efficiency Never Looked So Good...





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